XP-002194304

AN - 1986-295816 [45]
AP - JP19850060493 19850325
CPY - AGEN
DC - E17 G04 Q78
DR - 0972-U 1090-U
FS - CPI;GMPI
IC - C09K5/06 ; F28D17/00 ; F28F23/02
MC - E10-B04D E10-E02E E10-E04H G04-B01
M3 - [01] H4 H404 H484 H8 M280 M315 M321 M334 M344 M383 M391 M416 M620 M782 M903 M910 Q337 R023
- [02] G017 G100 H4 H401 H441 H8 M210 M211 M214 M233 M240 M283 M320 M414 M510 M520 M531 M540 M782 M903 M910 Q337 R023
- [03] H1 H100 H181 M210 M211 M212 M213 M214 M215 M216 M220 M221 M222 M223 M224 M225 M226 M231 M232 M233 M273 M281 M320 M416 M620 M782 M903 Q337 R023
- [04] H4 H403 H483 H8 M280 M315 M321 M333 M343 M383 M391 M416 M620 M782 M903 Q337 R023
PA - (AGEN ) AGENCY OF IND SCI & TECHNOLOGY
PN - JP61218683 A 19860929 DW198645 003pp
- JP1005636B B 19890131 DW198908 000pp
PR - JP19850060493 19850325
XA - C1986-128361
XIC - C09K-005/06 ; F28D-017/00 ; F28F-023/02
XP - N1986-220839
AB - J61218683 Phenolic cpd. or amine is added to the mixt. of pentaerythritol (PE) and 1,1,1-tris(hydroxymethyl)ethane (THME).
- USE/ADVANTAGE - PE is suitable as heat accumulator because its heat of phase transition is relatively large, i.e. 322J/g. Temp. of such transition (188 deg.C) can be lowered by compounding certain amt. of THME up to about 120 deg.C. Deterioration due to contact with high temp. heat carrier, e.g. air or other fluid, and resulting inclination of heat accumulating capability can be avoided by adding phenolic cpd. or amine.
- In an example mixt. of PE, THME, 35 wt.% per PE, and 2,6-di-t-butyl-p-cresol (DTBC), 6 wt.% per PE, having phase transition temp. 140 deg.C was tested for practical heat accumulating capability by heating-cooling cycle treatment. (3pp Dwg.No.0/0)
AW - HYDROXY METHYL
AKW - HYDROXY METHYL
IW - PENTAERYTHRITOL BASED HEAT ACCUMULATE COMPOSITION CONTAIN TRI HYDROXYMETHYL ETHANE PHENOLIC COMPOUND AMINE
IKW - PENTAERYTHRITOL BASED HEAT ACCUMULATE COMPOSITION CONTAIN TRI HYDROXYMETHYL ETHANE PHENOLIC COMPOUND AMINE
NC - 001
OPD - 1985-03-25
ORD - 1986-09-29
PAW - (AGEN ) AGENCY OF IND SCI & TECHNOLOGY
TI - Pentaerythritol based heat accumulating compsn. - contains 1,1,1-tris (hydroxymethyl) ethane and phenolic cpd. or amine